

<b>Notice of Allowability</b>	<b>Application N .</b> 10/680,409 <b>Examiner</b> Nguyen T Ha	<b>Applicant(s)</b> MURAKAMI ET AL. <b>Art Unit</b> 2831
-------------------------------	--	---

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 10/08/2003.
2.  The allowed claim(s) is/are 1-14.
3.  The drawings filed on 08 October 2003 are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 0803&0204
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

ANTHONY DINKINS  
PRIMARY EXAMINER

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Abraham J. Rosner (Reg. No. 33,276) on 5/7/2004.

The application has been amended as follows:

Claims 15-17 is now cancelled.

---

### **Allowable Subject Matter**

2. Claims 1-14 are allowed.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1-12 and 14, the prior art alone or in combination does not teach the limitation of a multi-layer ceramic capacitor comprising: a plurality of first and second columnar electrodes penetrating a dielectric ceramic layers in a direction normal to a layer planes of the ceramic layers, the first columnar electrodes being electrically connected to the first internal electrodes and the second columnar electrodes being electrically to the second internal electrodes, wherein the first and second columnar electrodes each has a corrugation including smaller diameter portions and lager diameter portions.

With respect to claim 13, the prior art alone or in combination does not teach the limitation of a multi-layer capacitor comprising: at least a single first via electrode extending through a capacitor body in the lamination direction of the capacitor body so as to connect a first electrode terminal and the first internal electrode layers, and at least a single second via electrode extending through the capacitor body in the lamination direction of the capacitor body so as to connect the second electrode terminal and the second internal electrode layers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Citation Relevant of Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. Mosley discloses multi-layer chip capacitor.
  - b. Ahiko et al. disclose multi-layer capacitor having a hexagonally shaped capacitor body.
  - c. Chazono discloses a multi-layer ceramic capacitor includes a substantially cuboid-shaped laminated body.
  - d. Okazaki et al. disclose a process for production of electronic component having terminal electrode.
  - e. Kuroda et al. disclose high voltage multi-layer capacitor.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen T Ha whose telephone number is 571-272-1974. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-2800 ext. 31. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent-Application-Information-Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Nguyen T. Ha*  
May 9, 2004



ANTHONY DINKINS  
PRIMARY EXAMINER